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9 November 2000 (09.11.2000)

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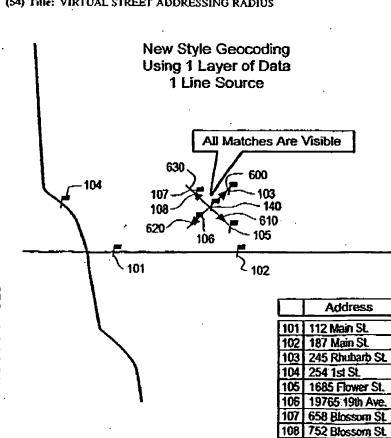
12 November 1999 (12.11.1999) US

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- (72) Inventor: GRASTEIT, Christopher, T.: 99 Randall Street, San Francisco, CA 94131 (US).
- (74) Agent: MAGEN, Burt: Fliesler, Dubb, Meyer & Lovejoy LLP, Suite 400, Four Embarcadero Center, San Francisco, CA 94111-4156 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ. DE, DK, DM, DZ, EE, ES, FJ, GB, GD, GE, GH, GM, HU, ID. IL. IN. IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO. NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, YN, YU, ZA, ZW,
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[Continued on next page]

(54) Title: VIRTUAL STREET ADDRESSING RADIUS



(57) Abstract: A single geocoded data layer is created by converting centroid related data to a line (600, 610, 620, 630) by adding or subtracting a distance at a predetermined direction from the centroid (140) to derive an endpoint from the centroid (140) defining the line (taking the form of a radial (610) extending from the centroid (140). The source of the centroid (140) related data is utilized to determine the direction of the line (a first source creates a line in a first direction, a second source creates a line in a second direction, and same sources related to different centroids (140) create lines oriented in a same direction from the different centroids (140)). single geocoded data layer allows for I pass searching of decoded data, and provides a display with more information than a simple match to a point or centroid (140). The radial display may take any form. Unconfirmed locations in the database may be related only to a centroid (140),

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#### INTERNATIONAL SEARCH REPORT

International application No.

		PCT/US00/42055		
·	A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) :GO6P 17/30; GO1C 21/00; GO6T 11/60  US CL :707/1, 3; 701/ 200, 201, 207, 208, 211; 345/435.  According to International Patent Classification (IPC) or to both	national classification and IPC		
1	B. FIELDS SEARCHED			
[	Minimum documentation searched (classification system follower	d by classification symbols)		
	U.S. : 707/1, 3; 701/ 200, 201, 207, 208, 211; 345/435.			
	Documentation searched other than minimum documentation to the	extent that such documents are included in the fields searched		
	Electronic data base consulted during the international search (n. Please See Extra Sheet.	ame of data base and, where practicable, search terms used)		
	C. DOCUMENTS CONSIDERED TO BE RELEVANT			
	Category* Citation of document, with indication, where a	ppropriate, of the relevant passages Relevant to claim No.		
	Please See Continuation of Second Sh	eet.		
	X Purther documents are listed in the continuation of Box C	. See patent family annex.		
	Special entegories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular retorance.	"I" been document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the sevention		
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	opecial reason (as specified)  Of document referring to an oral disclosure, use, exhibition or other means	"Y" document of particular relevance; the channel precision earned be considered to involve an inventive sup when the document is combined with one or more other such document, such combination being obvious to a person skilled in the art.		
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	Date of the actual completion of the international search  22 APRIL 2001	Date of mailing of the international search report  U4 MAY 2001		
1	Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer Pegggy Hansel ELLA COLBERT		
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#### INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/42055

B. PIELDS SEARCHED		
Discovering data bases consulted (Name of	data have and where practicable terms used	

WEST (All Databases).

Search terms: geocoded database, single layer or one layer database, map, centroid, data match, satellite.

Form PCT/ISA/210 (extra sheet) (July 1998) +

The United States Patent and Trademark Office dai Status EIV sets forth the date of receipt of:

SC/Serial No.: 09/439,550

DEC 1 1 2001

Inventor: Christopher T. Grasteit

Filed: November 12, 1999

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Art Unit: 2177

VIRTUAL STREET ADDRESSING RADIUS Title:

1. Information Disclosure Statement Under 37 C.F.R. § 1.56 (2 copies)

with cited references and Appendices A and B 2. Return Receipt Postcard

DEC 0 3 2001

Mailing Date: November 20, 2001 Attorney Docket No.: ETAK-07735US0

Atty: Brent A. Folsom

415 362 2928 FDM&L
Drawing Sheet 1 of 12
Title: V\*\*\*TUAL STREET ADDRESSING RADIUS

Docket No.: ETAK-0773\_ JU Telephone No.: 415-362-3800

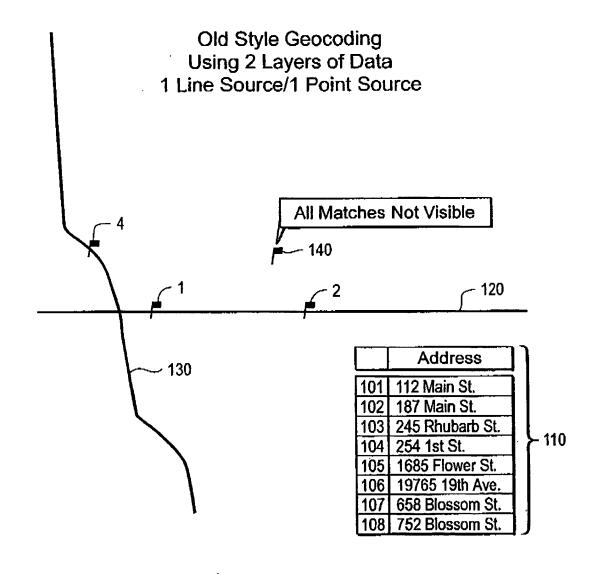


FIG. 1

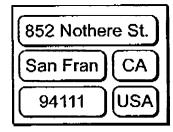
100

Title: VIRTUAL STREET ADDRESSING RADIUS

nutor: Grasteit
1 No.: 09/439,550
Attorney: Brent A. Folsom
Filing Date: November 12, 1999

Docket No.: ET. 735US0 Telephone No.: 412-262-3800

The Address Was Not Found.
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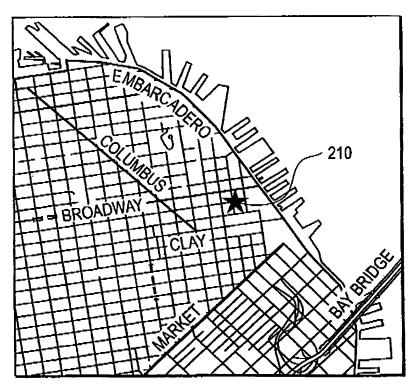


FIG. 2A

Title: VIRTUAL STREET ADDRESSING RADIUS

ator: Grasteit : No.: 09/439,550 Attorney: Brent A. Folsom Filing Date: November 12, 1999

Docket No.: ETA 735US0 Telephone No.: 413-362-3800

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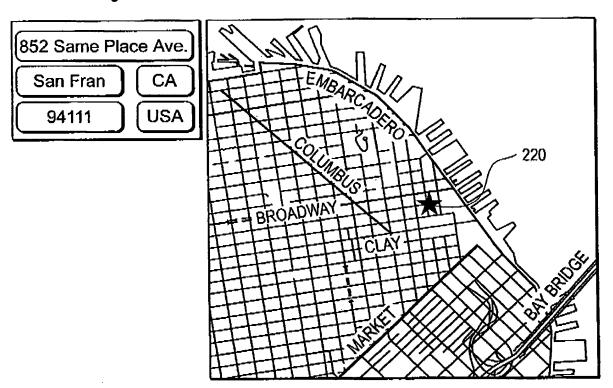


FIG. 2B

12/10/02 TUE 17:28 FAX 415 362 2928 FDM&L Time: VIRTUAL STREET ADDRESSING RADIUS

Inventor: Grasteit
A 5.: 09/439,550
At. ey: Brent A. Folsom
Filing Date: November 12, 1999

Docket No.: ETAK 1USC Telephone No.: 415- 2800

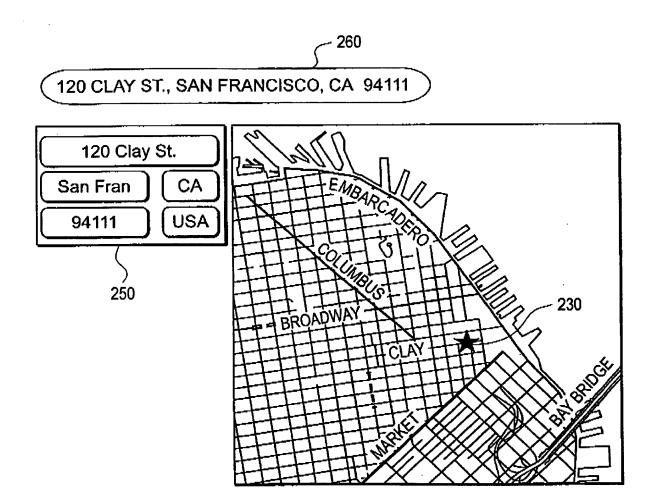


FIG. 2C

Tide: VIRTUAL STREET ADDRESSING RADIUS

intor: Grasteit

A No.: 09/439,550

Attorney: Brent A. Folsom

Fiting Date: November 12, 1999

Docket No.: ET. /735US0 Telephone No.: 415-362-3800

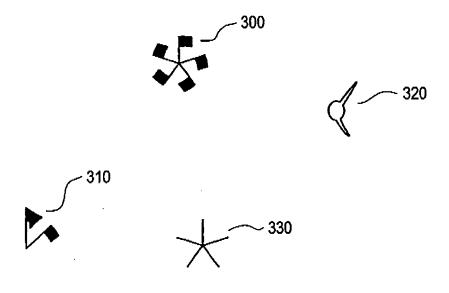


FIG. 3

TOTAL

Drawing Sheet 6 of 12

The: VIRTUAL STREET ADDRESSING RADIUS

Ventor: Grasteit

Appl No.: 09/439,550

Attorney: Brent A. Folsom

Filing Date: November 12, 1999

Docket No.: E. ..... 07735US0 Telephone No.: 415-362-3600

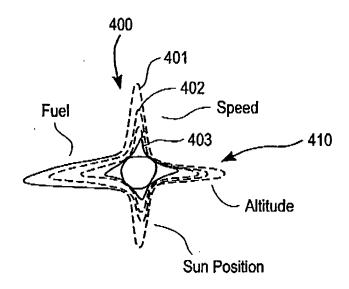


FIG. 4

TIMEL
Drawing Sheet 7 of 12
Title: VIRTUAL STREET ADDRESSING RADJUS
Inventor: Grasteit
Appl No.: 09/439,550
Attorney: Brent A. Folsom
Filing Date: November 12, 1999

Docket No.: LAK-07735US0 Telephone No.: 415-362-3800

<ul><li>Public Bldg.</li><li>Unknown</li><li>Private Bldg.</li></ul>	<ul> <li>In Bldg.</li> <li>In</li></ul>
No Parking	<ul><li>─ None</li><li>☐ ─ In Bldg.</li><li>☐ ─ Same Block</li></ul>

FIG. 5

FDM&L

Drawing Sheet 8 of 12

ntor: Grasteit ...pl No.: 09/439,550 Attorney: Brent A. Folsom Filing Date: November 12, 1999

Docket No.: ETA. - 77735US0 Telephone No.: 415-362-3800

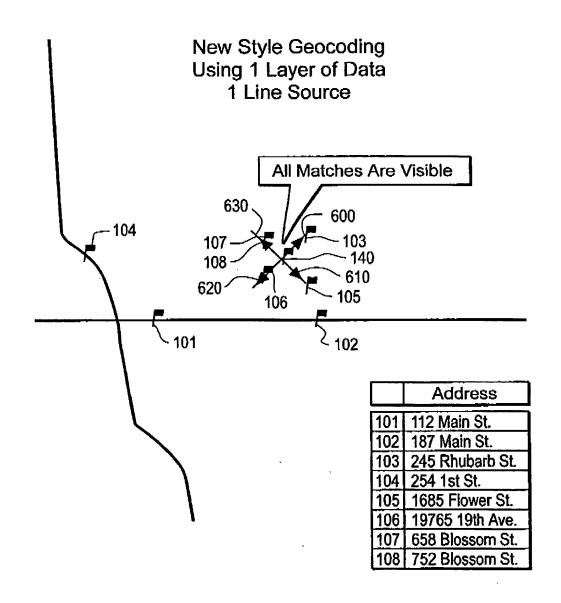


FIG. 6

Drawing Sheet 9 of 12
Title: VIRTUAL STREET ADDRESSING RADIUS
forventor: Grasteit
Appl No.: 09/439,550 Docket No.:
Attorney: Brent A. Folsom Telephone N
Filling Date: November 12, 1999

Docket No.: E1 AK-07735US0 Telephone No.: 415-362-3800

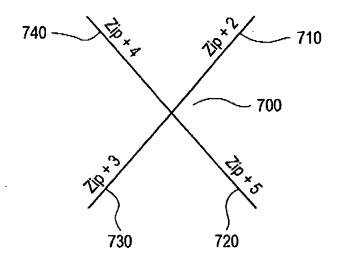


FIG. 7

Drawing Sheet 10 of 12
Title: VIRTUAL STREET ADDRESSING RADIUS
.eventor: Grasteit
Appl No.: 09/439,550
Attorney: Brent A. Folsom
Filing Date: November 12, 1999

Docket No.: B. AK-07735US0 Telephone No.: 415-362-3800

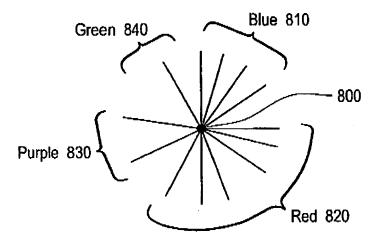


FIG. 8

Drawing Sheet 11 of 12
: VIRTUAL STREET ADDRESSING RADIUS

JIOT: Grashit
bl No. 100420 555

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Attorney: Brent A. Folsom
Filing Date: November 12, 1999

Docket No.: ETAK-07735U\$0 Telephone No.: 415-362-3800

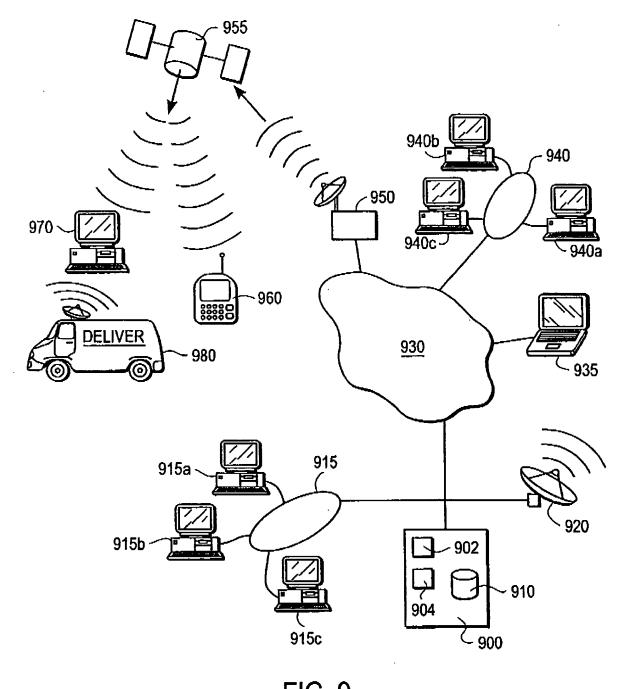


FIG. 9

te: VIRTUAL STREET ADDRESSING RADIUS
entor: Grasteit
appl No.: 09/439,550
Attorney: Brent A. Folsom
Filing Date: November 12, 1999

Docket No.: ETA--07735US0 Telephone No.: 415-362-3800

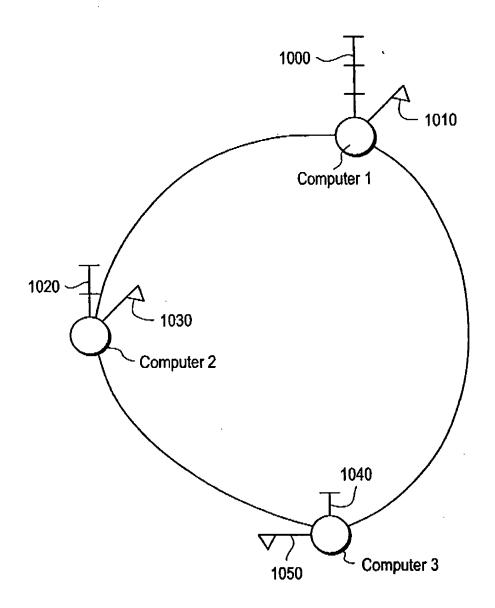


FIG. 10